

**CLAIMS**

1           1. A method of allowing access by a workstation connected to a first network  
2 of a highest security level, to information in a second network of a lower security  
3 level, the method comprising the steps of:

4                 routing connections for input devices for the workstation to a proxy in  
5 the second network;

6                 establishing a remutable session in the second network;

7                 connecting the input devices to the remutable session through the  
8 proxy in the second network so that the input devices are operable to control  
9 applications running in the remutable session;

10                sending output from the remutable session through the proxy in the  
11 second network to a proxy in the first network through a diode that ensures  
12 that information only flows in one direction; and

13                forwarding the output from the proxy in the first network to a remote  
14 session viewer at the workstation.

1           2. The method of claim 1 wherein the establishing step includes sending a  
2 login screen and further comprising the step of receiving login information for a user  
3 at the second network.

1           3. Apparatus for allowing access by a workstation connected to a first network  
2 of a highest security level, to information in a second network of a lower security  
3 level, the apparatus comprising:

4               means for routing connections for input devices for the workstation to a  
5 proxy in the second network;

6               means for establishing a remutable session in the second network;

7               means for connecting the input devices to the remutable session  
8 through the proxy in the second network so that the input devices are operable  
9 to control applications running in the remutable session;

10              means for sending output from the remutable session through the proxy  
11 in the second network to a proxy in the first network through a diode that en-  
12 sures that information only flows in one direction; and

13              means for forwarding the output from the proxy in the first network to a  
14 remote session viewer at the workstation.

1           4. A system for selectively allowing access by a workstation connected to a  
2 plurality of networks to information in a network of the highest security level or in a  
3 selected network from one or more other networks of lower security levels, the sys-  
4 tem comprising:

5               a switching unit for selectively routing connections for input devices to  
6 the workstation or to the selected network;

7 a plurality of programmable computer systems disposed in the plurality  
8 of networks, each of the programmable computer systems operable to execute  
9 applications under the control of the workstation;

10 a plurality of diode servers disposed one each in each of the plurality of  
11 networks, each diode server in the one or more other networks connected to  
12 the switching unit and at least one programmable computer system and oper-  
13 able as a proxy to connect the switching unit to a remutable session in the se-  
14 lected network, a selected diode server further operable to forward output from  
15 the remutable session to the network of the highest security level for display in  
16 a remote session viewer at the workstation; and

17 one or more diodes disposed one each between a diode server in one  
18 of the one or more other networks and a diode server in the network of the  
19 highest security level so that information can flow only from the selected net-  
20 work to the network of the highest security level.

1 5. A method of operating a server to proxy access by a workstation connected  
2 to a first network of a highest security level, to information in a second network of a  
3 lower security level, the method comprising the steps of:

4 establishing a remutable session in the second network;

5 connecting the input devices to the remutable session through the  
6 server so that the input devices are operable to control applications running in  
7 the remutable session; and

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8 sending output from the remotable session to the first network through  
9 a diode that ensures that information only flows from the server in the second  
10 network to the first network.

1 6. The method of claim 5 wherein the establishing step includes sending a  
2 login screen and further comprising the step of receiving login information for a user  
3 at the second network.

1 7. A computer program product for enabling a server to proxy access by a  
2 workstation connected to a first network of a highest security level, to information in a  
3 second network of a lower security level, the computer program product including a  
4 computer program comprising:

5 instructions for establishing a remotable session in the second network;  
6 instructions for connecting the input devices to the remotable session  
7 through the server so that the input devices are operable to control applica-  
8 tions running in the remotable session; and

9 instructions for sending output from the remotable session to the first  
10 network through a diode that ensures that information only flows from the  
11 server in the second network to the first network.

1           8. The computer program product of claim 7 wherein the computer program  
2 further comprises instructions sending a login screen and receiving login information  
3 for a user at the second network.

1           9. The computer program product of claim 7 wherein the instructions for  
2 sending output further include instructions for software throttling.

1           10. The computer program product of claim 8 wherein the instructions for  
2 sending output further include instructions for software throttling.

1           11. Apparatus for granting access by a workstation connected to a first net-  
2 work of a highest security level, to information in a second network of a lower security  
3 level, the apparatus comprising:

4                 means for establishing a remutable session in the second network;

5                 means for connecting the input devices to the remutable session so that  
6 the input devices are operable to control applications running in the remutable  
7 session; and

8                 means for sending output from the remutable session to the first net-  
9 work through a diode that ensures that information only flows from the second  
10 network to the first network.

12. A programmed computer system which is operable to proxy access by a workstation connected to a first network of a highest security level, to information in a second network of a lower security level by performing the steps of:

establishing a remutable session in the second network;

connecting the input devices to the remutable session through the server so that the input devices are operable to control applications running in the remutable session; and

sending output from the remutable session to the first network through a diode that ensures that information only flows from the server in the second network to the first network.

13. The computer system of claim 12 which is further operable to apply software throttling to the output being sent to the first network.

14. A system for allowing access by a workstation connected to a first network of a highest security level, to information in a second network of a lower security level, the system comprising:

a diode handler object for communicating between the system and a

diode that allows information to flow in only one direction; and

6 a proxy server object for interconnecting the diode handler object to a  
7 remotable session viewer in the workstation.

1 15. A system for allowing access by a workstation connected to a first network  
2 of a highest security level, to information in a second network of a lower security  
3 level, the system comprising:

4 a diode handler object for communicating between the system and a  
5 diode that allows information to flow in only one direction;

6 a proxy client object for interconnecting the diode handler object to a  
7 remotable session; and

8 a switch handler object connected to the proxy client object for commu-  
9 nicating between the proxy client object and a switching unit.

1 16. The system of claim 15 wherein the diode handler object applies software  
2 throttling to the information.